# SAF-RC-001 Industrial Hygiene Sampling FINAL DATA

NO DISTRIBUTION REQUIRED

**COMMENTS:** 

SDG <u>06I-0183-01</u> SAF-RC-001

Rad only X Chem only Rad & Chem

X Complete

Partial

300 Area 333 Bldg







#### Cover Page

Report Identification Number: 06I-0183-01

Subcontract Number:

0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number:

DCHM

SAF#: RC-001 / R300XX J451

Payroll#: 8C104



Web Page: www.datachem.com

E-mail: lab@datachem.com

Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
17 Jan 2006	J10X87	06I01525	NMAM 7300M	G060K00H	G WIPE
17 Jan 2006	J10X84	06I01526	NMAM 7300M	G060K00H	G WIPE
17 Jan 2006	J10X86	06I01527	NMAM 7300M	G060K00H	G WIPE
17 Jan 2006	J10X85	06I01528	NMAM 7300M	G060K00H	G WIPE

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Phone: (801) 266-7700

FAX: (801) 268-9992

Name: Lisa M. Reid

Title: Chemist

Date: January 23, 2006





#### Case Narrative Page

Report Identification Number: 06I-0183-01

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF#: RC-001 / R300XX J451

Payroll#: 8C104

General Set Information: There are 4 samples in set 06I-0182-01 and 4 samples in set 06I-0183-01 which were analyzed for beryllium on Ghost Wipe. No problems were encountered with the receipt of these samples and no contact with the CTR was required.

Method Summary: Samples were transferred to 50 ml centrifuge tubes and digested in the presence of 5 mL of nitric acid and 5 mL of ASTM Type II water. Samples were digested in a hot block set at 110°C for 60 minutes. Samples were then diluted to a 25 mL volume with ASTM Type II Water. Samples were shaken and delivered for ICP analysis.

Sample Preparation: All samples were prepared in accordance with DCL SOP "IH-AN-021" and NIOSH method NMAM 7300 modified for hot block digestion.

**Holding Times:** The holding times were met for both sample preparation and analysis.

**Instrument** Calibration: Instrument calibration was performed in accordance with NIOSH method NMAM 7300.

<u>Initial and Continuing Calibration Verification Analysis:</u> Beryllium recoveries in all Initial Calibration Verification (ICV) and Continuing Calibration Verification (CCV) samples are within the quality control limits of +/- 10%.

Initial and Continuing Calibration Blank Analysis: No beryllium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 0.01 ug/sample.

Method Blank Analysis: No beryllium was found in any of the media blank samples above the Contract Required Detection Limit (CRDL).

**Dilution(s):** None.

Laboratory Control Sample and Duplicate Analysis: One Laboratory Control Sample (LCS) and one Laboratory Control Sample Duplicate (LCSD) were prepared and analyzed with the sample batch. The LCS results were within the control limits of +/- 20%. The Relative Percent Difference (RPD) between the LCS and the LCSD were within the control limit of 20%.

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#### Case Narrative Page

Replicate Analysis: One sample in this batch was replicated. The RPD between the sample and the replicate was within the control limit of 20%. If the result of the sample or replicate is below the CRDL, replicate analysis is negligible.

Flagging Codes: None

Nonconformance/Corrective Action Report (NC/CAR): N/A

**Sample Calculation:** The final results are calculated by the following equation:

Final result for aqueous samples ( $\mu$ g/sample) = (A) x (B) x (C)

Where:

A = Analyte concentration from instrument determination ( $\mu$ g/L)

B = Concentration factor from sample preparation

= Final Volume of Digestate (L)
Sample

C = Dilution performed at time of analysis

Example Calculation:  $(1 \mu g/L) \times (0.025 L/sample) \times (1) = 0.025 \mu g/sample$ 

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Miscellaneous Comments: None





### Report Page

Report Identification Number: 06I-0183-01

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Phone: (801) 266-7700

FAX: (801) 268-9992

Web Page: www.datachem.com

E-mail: lab@datachem.com

Laboratory Identification Number: DCHM

SAF#: RC-001 / R300XX J451

Payroll#: 8C104

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Berylliun µg/sampl	
J10X87	06101525	19 Jan 2006	< 0.020	U
J10X84	06I01526	19 Jan 2006	< 0.020	U
J10X86	06101527	19 Jan 2006	< 0.020	U
J10X85	06101528	19 Jan 2006	< 0.020	U
	0.00	70		
R	equired Detecti	on Limit (RDL)	0.0	20

- U Parameter not detected above LOD.
- J Parameter between LOD and RDL.





## QC Summary Page

Report Identification Number: 06I-0183-01

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF: RC-001 / R300XX J451

Payroll#: 8C104

Batch ID: G060K00H

QC Sample ID	QC Type	Analyte	Units	Result	Parent Result	Target	Percent Rec.	Relative Percent Diff.
BL-240174-1	MB	Beryllium	μg/sample	ND	NA	NA	NA	NA
QC-240174-1	LCS	Beryllium	μg/sample	10.8	NA	10.0	108.	NA
QD-240174-1	LCSD	Beryllium	μg/sample	11.1	10.8	10.0	111.	2.84

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MB - Method Blank

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MSD - Matrix Spike Duplicate

LD - Laboratory Duplicate

NA - Not Applicable

ND - Parameter not detected above LOD

LCS, LCSD Percent Rec. = (Result / Target) \* 100.0

MS, MSD Percent Rec. = ((Result - Parent) / Target) \* 100.0

LCS, LCSD Relative Percent Diff. = ((|LCS - LCSD|) / ((LCS + LCSD)/2.0)) \* 100.

MS, MSD Relative Percent Diff. = ((|MS - MSD|) / ((MS + MSD)/2.0)) \* 100.

LD Relative Percent Diff. = ((|Parent - LD|) / ((Parent + LD)/2.0)) \* 100

Washington Closure Baduri

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OT-0/8.01

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			CHAIN (	)F CU	JSTODY/S	AMPLE	ANALY	SIS RE	QUEST						
Collector: CARLIA	Hughes	Company C Denise A. P	Company Contact Denise A. Pitts and Henry W. Ruby			Telephone No. 531-1229			Project Coordin Joan H. Kessner		-	Data Turnaround			
Payroll#:	Hughes L104	Sampling L	1 4 -			NSTRUCTIONS SAF No. COAs must be provided: RC-001							į		
Type of Sample:	e.	300 AR	2ea, 333 B	dg.	R300 XX J451				Method of Shipment  Fod FX						
	ta Chem Lt Lake Ci	Wipe Samp Ghost 💆 Ty Other	⊈Yes □ No		ANALYSIS METHOD (SPECIFIC):  N 105 H 7300				Method of Shipment  Fed Ex  Bill of Lading/Air Bill No.  854/1 9337 5330						
POSSIBLE SAMPLE I  Be Special Handling and	d/or Storage	MAT A - AIF WI - WII X - OT	R Pru PE		i (i.e., cooling ed, etc.)	No	No	No	No	No	No	No	No	E	
		SAMPLE ANALY	SIS					<u> </u>		1	<b>.</b> .	ļ	-	4/2	
SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L) or Area 100 cm <sup>2</sup>	,	Comments	Asbestos Aurborne	Lead Airborne	Beryllium Airborne		Mold	Lead Wipe	Cd Wipe	Cd Airbome	*\	
J10X87.	WI	1-17-06	Х		N/A	W	1015	25	×						
Z10X84.	WI_	1-17-06	X		N/A		Cent	24	×			ee,			
210X 8C	WI	1-17-06	NA	1	3Lank		12	27	X			1720			
J10X 85	WI	1-17-06	N/A	[3	BLANK		6	3%	X			ļ			
							<u> </u>								
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Page \_\_\_\_\_ of \_\_\_\_

WCH-SH-202 (08/29/2005)

Page 6 of 7

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H	TA
EM	
۰,	.43 3EE E.,

Enter on line below the first Sample Number from Page	One:		
CH	IAIN OF CUSTODY/SA!	MPLE ANALYSIS REQUEST	
		/ USE MILITARY TIME	<del></del>
Range Sal Be Seed	DATE / (IME	Reservat By Shrak	DAJE ( ) DAG
CARLES Hughes/Carles Hughes	1-17-06 / /3/5	Locked CABINET, Rm. 16, Bldg 3746	1-17-06/1315
Tocked Cabinet bulling 3746 Rm #16	DATE	Mercela pr. Neter	(ATI), TIME,
Goldie Malhan	01/17/06 /V45	Record Systems	1-17-06 1445
RZ Steffler A. P. Stell	g wett > 1-17-06 1530	Fed Ex	
Scharger Acid by Served	DATE : TURE	Received Bristoph	DATE/IML
Jul by		Meredel Separd	18/mole /945
Returned the State	DATE/THE	Record Bases	Extra time 1
nutily ME	18/nove/745		
Relanquistand Burkerest W	D.M. TAKE	Reserved By Saucet	DATE (YEM)
Relangement BySterol	DATE/TIME	Roussed By Serve	DATE ( VIAF.
Relanguaged By Street	OATE/TIME	Roze of By Sweet	DATE / TIME
	•		
Relationship of Barbary of	DATE/TIME	Received the State of	DATE? Class:
••			
Relateful Avil By Shee ed	DATE/TRIE	Restrict ByStarol;	DATE / SIME
LABORATORY Received By SECTION MINE AND LEAST	Title		DATE/TIME
			J-7
REVIEWED BY:		DATE:	
	PRINT/SIGN NAME		<del></del>

WCH-SH-202 (08/29/2005)



			CHAIN (	OF CUSTODY/	SAMPLE	ANALY	SIS RE	EQUEST				,		
Collector:	Hughes	Company C Denise A. P	ontact litts and Henry W. R	uby	Telephone No. Project Coordinator 531-1229 Joan H. Kessner		Data Tur	naround						
Payroll #	104	Sampling L	ocation	All relevant (	SPECIAL INSTRUCTIONS All relevant COAs must be provided:						STANDARD			
1 300 MCCA, 330 DIAA.			aa.	ANALYSIS METHOD (SPECIFIC).				Method of Shipment Fed						
								8541 9337 5330						
POSSIBLE SAMPLE Both Special Handling an	d/or Storage	A - AIF WI - WII X - OT	Pre Pre	servation (i.e., cooling required, etc.)	No	No	No	No	No	No	No	No	E	
		SAMPLE ANALY	SIS		Asbestos	Lead	Danillia.	Donation		Lead	Cd	Cd	Che.	
SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L) er Area <u>100</u> cm²	Comments	Airborne	Airborne	Beryllium Airbome		Mold	Wipe	Wipe	Airborne		
JIOX87	WI	1-17-06	X	N/A				×						
710X84	WI	1-17-06	X	N/A		CK.		×			CEN	<u> </u>		
210X86	WI	1-17-06	NA	Blank		172		X			1777.06			
J10X 85	WI	1-17-06	N/A	BLANK				X		<u></u>				
				<u></u>										
								F	ELD :	SAMP	E CC	) PY		
	, ·	, '			CKH									
					1-17-6	6								

	СН	IAIN OF CUSTODY/SAN	MPLE ANALYSIS REQUEST	
			/ USE MILITARY TIME	
Rejuiguesteal By/Stored		DATE / TIME	Received By/Starcal:	DATE/TIME
CARLIA Hughes	5/Cools Hughes	1-17-06 / 1315	Locked CABINET, Rm 16, Bbg 3746	1-17-06/1315
Ked Cabine	# bulking 3746 Rm #16	DATE/TIME	Reacted By/Secret:	DAŘE/TIME
Cold Mal	- Golde Malhan	01/17/06 1445	RZ Steffler 1.7. Steff	1-17-66 1445 DATE/TIME
RZ Steff	ber A.Z. Steffel	> 1-17-06 15-30	Fed Ex.	COPY
solitefunes p3/2545.p.				
Relanquished By/Stored		DATE / TIME	Received By/Sweet:	DATE/TIME
		•		
Re-trappolaci By/Stores		DATE / FIME	Received By/States:	DATE / TIME
Reimmunhed By/Storest:	<u></u>	DATE/TIME	Received By/Sured:	DATE/TIME
Relinquised By/St. evd.		DATE/TIME	Received By/Stored:	DATE / LIME
Relinquished By/Skirod:	:	DATE/TIME	Received By/Smeed:	DATE / CIMI:
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Relinqui-hed By/Steved		DATE / TIME	Received By Stated:	DATE / NME
LABORATORY	Received By	Title		DATE / TIME
SECTION		<del></del>		
REVIEWED BY:	-		DATE:	
		PRINT/SIGN NAME		